

User Action Setup for Automatic Data Upload from Cimel Control Box to PC Version 4.8x

1. Check Instrument Version

[G] – green button

[W] – white button

[Y] – yellow button

[R] – red button

Select PW [G] in the main menu, manual mode

24 / 02 / 05	21 : 50
PW MAN SCN VIEW	

This screen appears for a few seconds.

21 : 50 : 59	PW	0
Pass Word	-	+

Increment to 3 with [R], then press PASS [G]; the control box will display:

PHOTOMETERx 4.8x
Tr VX1004GTM

Verify that the sun photometer version is 4.8x and proceed with step 2; otherwise, find alternate version instructions from the web site.

Press [G] one more time to exit to main menu.

2. General Information and Initial Setup

Start times of the automatic and user actions can be viewed by pressing PW = 2

Select PW [G] in the main menu, manual mode

24 / 02 / 05	21 : 50
PW MAN SCN VIEW	

This screen appears for a few seconds.

21 : 50 : 59	PW	0
Pass Word	-	+

Increment to 2 with [R], then press PASS [G]; the control box will display:

n:01/27	HH : MM : SS
01=>255	FF : FF : FF

The above display can be described as the following:

Y : aa / bb	HH : MM : SS
XX => uuu	hh : mm : ss

Where :

“Y=n” - if sun photometer is in manual mode

”Y =N” - if sun photometer is in automatic mode.

”aa” - number of the next action to be executed,
options are 1 to 26 and can be setup by user;

”bb” – number of the next Langley action or
next scheduled measurement in automatic mode,
options are from 27 to 99 (cannot be setup user).

“HH : MM : SS”: - current local solar time.

”XX” – current action number

”uuu” – code of scenario to be executed for action number XX

”hh:mm:ss” – the local solar time when action number XX will be executed.

To setup/modify user action press [W]:

n:01/27	HH : MM : SS
01=>255	FF : FF : FF

The cursor appears under the value to modify.

Button [W] - move the cursor to the next position in the row.

Buttons [Y] – decrease and [R] - increase the value.

3. Configuring the PC Automatic Upload Scenario

Two upload scenario times should be entered for the PC upload scenario: 10:32:40 local solar time (LST) and 14:32:40 LST to avoid conflict with routine solar measurements. The direct sun measurement started at 10:30:00 LST or 14:30:00 LST will be completed in approximately 2 minutes and the instrument will be idle at 10:32:40 LST or 14:32:40 LST, respectively. A full memory upload will take about 12 minutes. As a result, the uploading will finish just before the next scheduled measurement at 10:45:00 LST or 14:45:00 LST.

Notes:

- If the instrument is performing a task at the same time as the user action, the scheduled user action will not be performed.
- User actions scheduled before 10 a.m. and after 3 p.m. may conflict with measurements due to scenarios based on the air mass rather than the local solar time.
- User actions scheduled after the last Langley time (last measurement) and before the first Langley time (first measurement) will not be executed because the control box switches to sleep mode and wakes up at the first Langley time.

Press [R] to increment to 10 hours then press [W] to move cursor to minutes:

n:01/27	HH : MM : SS
01=>255	10 : FF : FF

Increment to 32 min, you can push and hold [R] button till 32 appear. Press [W] to move to “ss” position.

n:01/27	HH : MM : SS
01=>255	10 : 32 : FF

Increment to 40 by [R] and press [W] to move to scenario code position:

n:01/27	HH : MM : SS
01=>255	10 : 32 : 40

Change value to 15 by pressing [R], 15 is a code of PC uploading scenario. When you are done press [G] to confirm the user action setup (cursor disappears):

n:01/27	HH : MM : SS
01=>15	10 : 32 : 40

Press [G] one more time to exit to main menu.

24 / 02 / 05	22 : 05
PW MAN SCN VIEW	

4. Confirm User Action Setup

The scheduled user action can be checked any time by pressing [G] in main menu (PW) and increment to 2, press [G] again:

n:02/65	HH : MM : SS
02=>255	FF : FF : FF

Use [Y] or [R] to change action number (on display above “02” in bottom row) to the number 01, you should see:

n:02/65	HH : MM : SS
01=>15	10 : 32 : 40

The above display indicates that the PC upload user action (15) is enabled at 10:32:40 LST. Press [G] to return to the main menu.

Finally, repeat steps **2, 3, and 4** for the 14:32:40 LST data upload scenario. In this case, use [Y] or [R] to change action number to 2. The end result should be the following display for the second scenario:

n:02/65	HH : MM : SS
02=>15	14 : 32 : 40

IMPORTANT!

If the control box has been reset (internal battery disconnected or discharged, memory initialized, etc.), you will need to setup the user action again.

5. Download and Install Cimel Connect Software

The Cimel Connect software can be installed to use the web or FTP transfer. You may use one of the links below to download the desired software and instructions:

HTTP: http://aeronet.gsfc.nasa.gov/new_web/Documents/AERONET_Cimel_Connect_HTTP.pdf

FTP: http://aeronet.gsfc.nasa.gov/new_web/Documents/AERONET_Cimel_Connect.pdf